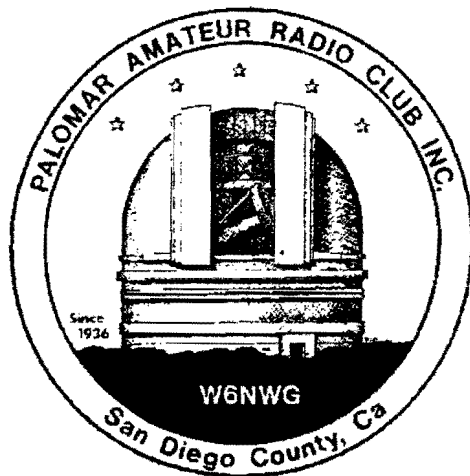




Scope

Palomar Amateur Radio Club Inc.

Box 73, Vista, CA 92085-0073
 May ***** 1996 ***** 60 Years Old
 Dues \$12, Volume XXII, Number 5
 Coffee 7pm, Mtg. 7:30pm @ Carlsbad Safety
 Center, Palomar Airport Rd. to N. on Camino
 Real (S11), east on Faraday .25mi, left to CSC.
 ***** Talk-in 146.730 *****
 147.075+, 147.130+, 449.425-
 4-Autopatches, Pkt, ATV, 220

NEXT MEETING Sybil-W6GIC

The program for May will be on Global Positioning Systems (GPS). This is a relative new facet of amateur radio and should be of general interest to all members. It has been rumored that one of our members has a unit in his wife's car!

Show and Tell: if you have anything of interest, bring it in and tell me how much time you need.

The club meeting starts at 7:30pm but many come at 7pm to talk to friends, sample the goodies and coffee, join in a seminar, get a good seat, or be first to see the small items of equipment being brought in for the club's sale table where the club takes 10% of the selling price.

Check 146.730- around 6pm for where some members are eating dinner before the meeting.

Please come **early** and help set up chairs ...and **STAY** a few minutes to

May Calendar

- 01 Club Mtg. Carlsbad Safety Ctr, 7:30p
- 04 Santee Swap Meet (drive in theater)
- 05 Repeater Site Work Party 10am P.Mt
- 09 PARC Board Mtg. W9FQN QTH, 7:00p
- 11 PARC VE Testing Carlsbad Saf.Ctr, 10a

Field Day

Sat. June 22, 11am, Start

Sun. June 23, 11am, End

help put them away. Your help is greatly appreciated!

SEE YOU THERE!

FIELD DAY Wayne-WD6AHX

Art-KC6UQH, our club president, has appointed Frank-KE6WOE as an administrative assistant to me for all Field Day activities.

There are only seven more weeks to Field Day and we will need lots of help.

We are going to be needing station heads (Chief Operating Positions) for at least eight or nine transmitting positions. These COPs will need to get Shift Operators (SOs) to cover the full 24 hour FD period. In years past we have assigned two SOs per four hour shift. One SO operates and one logs on a computer that checks to see if we have worked the station before. The SOs shift around during their four hour shift so that no one has the same job for the entire shift.

For those who have never been on a Field Day, you might want to join up with a two man SO team (if you can type call letters) and offer to do their logging for them. This will give the SOs a little more free time and you will learn how the **big guns** operate in a contest.

Please contact me or Frank if you are interested in being considered for the following:

- 1)being a COP for a HF voice station
- 2)being a COP for a VHF/UHF station
- 3)being a COP for a packet station
- 4)being a COP for the Satellite station
- 5)being a COP for the Novice/Tech Sta.
- 6)being an operator for one of the

NEWS WORTHY (see page)

- 2-Board, Membership, Treas, Membership, Thanks, AGOGO
- 3-President's remarks, SK's
- 4-Editor, Sunspots
- 5-Technical, Operations, Patches
- 6-DFing, WorkP, ATV, Pkt, Projects
- 7-Welcome, For Sale/Wanted
- 8-News/Unclassified, Tnx
- 9-N6YZZ letter
- 10-Nets, Swap Meets
- 11-SANDARC, 6m, Freqs.

above

- 7)being a **logger** for one of the above
- 8)being a member of the antenna and tower **setup group** Friday afternoon and Saturday morning
- 9)contributing a **shelter** for the weekend: motor home, trailer, etc.
- 10)being a "**gopher**" to do all of the little things that need to be done to make this year's Field Day a success. (see presidents wavelength on page 3 -Ed)

There has been some talk of an all YL FD station (YL is Young Lady -Ed)

Since last FD, someone has run off with two 2" iron pipes 10' long which are used on one of our portable towers. These will need to be replaced if we want to use one of the 40' crankup towers.

LAST MEETING

We were treated to a professional program on the **San Diego Mountain Rescue Team** showing their operation in the finding and rescue of lost and/or injured persons. They certainly are a dedicated group with many of them holding amateur radio licenses.

They left pamphlets describing their operation and if you missed picking one up, see W9FQN at the May meeting.

Attendance was 139 with 123 members and 16 guests.

Show & Tell had the showing of a two watt HF QRP (low pwr) transceiver kit put together by Russ-KO6EP and a sample of PARC's new money maker cable which had not been held down





properly on an April 1st cable run and tied itself into knots.

Announcements and reports were given by ARES (David-KC6YSO) RACES (John-N6URW), and SDCo. ARRL Sect. Mgr. Pat-WA6MHZ. David, PARC's secretary, filled in for Sybil-W6GIC who was ill.

Paul-KO6AM and Larry-KO6SM were probably on the video camera and many thanks to those who helped set up and take down the chairs (*wish we could get all your names and calls.*)

BOARD MEETING *(all welcome)*

The April Board meeting was at the QTH of Stan-W9FQN and Barbara-KA6FPS.

BOARD: KC6UQH, W6GIC, KC6YSO, KE6ZXP, WB6IQS, W9FQN, KC6WAN, AB6QT, and WB6PKK. (present/absent)

OTHERS:

KB6MCU (ATV/Training), KE6WOE (Web Site), and N6UWW
The 7:00 pm meeting started at 7:11 and ended at 9:30 pm.

SECONDS *(minutes?)*

The following items were discussed and/or **Approved:** Special Service Club materials; TASMA; 6m coordination; finances and CDs; programs; seminars before meetings; HRO & PARC brochures; SCOPE items next issue; selling at club meetings and policy; Hobby show in Vista on Apr.20th; grounding video; '96 Site Worksheet; Packet Net; CW contacts on 147.075 with W9FQN coordinator; 911 problems; autopatch status; membership 844; emergency antennas 2m/70cm; work party in May; 146.730 replacement repeater; Ham classes; ATV report; power supply \$25; Heart cycle ride; and next Board Mtg. at W9FQN QTH.

TREASURER Shawna-KE6ZXP

BALANCE SHEET for March:

\$7,796 Equip Res;	Cking \$ 10,841
\$5,504 Operations.	CD's \$ 2,336
\$13,300 Total	Cash \$ 123
	Total \$ 13,300

The CD represents money that was

paid ahead when members joined for two or more years.

The Board has authorized me to invest an additional \$2,000 in a CD for 6 months in April and \$2,000 in a CD for 12 months in May which will give us money when it is time to pay our insurance bills.

We are also approaching the time of year when we will be collecting dues for 96-97 which allows us to temporarily place these new amounts temporarily in CD's.

We will probably be having some large expenditures coming up soon since the board is looking into buying a spare antenna for the 2-meter repeaters (\$700) and several 70cm antennas (\$400ea). (*We almost have to go commercial grade at the repeater site because of the severe winters with wind, rain, snow, ice, etc. -Ed*)

MEMBERSHIP Ralph-KC6WAN

You are a member if you received a Scope--there is no separate notification. For an autopatch information sheet, a Form 610 or other information send a SASE (Self Addressed Stamped Envelope) to the Club, address on the backside of this newsletter.

Please pay dues with a check--it's so much easier. Just a check with your name and call sign will be sufficient--unless you've moved! When you do please tell us. The Post Office charges us \$.50 to tell us where you moved to. A phone call to me, 727-7415, would be most appreciated.

New Members for 1 yr - OH1BOI-Jari; KF6CRK-Charles; KD6WRL-Stephen; KC6UJN-Jeffery; N6XCE-Ralph; N6YSC-Terry; W9IF-Richard; N6VAK-Jerry.

Renewals for 3 yrs - KE6BUA-John (previously reported as 2 years)

Renewals for 2 yrs - KE6EUE-Merle; KE6UFO-Earl.

Renewals for 1 yr - KE6BUA-John; KD6JXO-Frank; WV6Z-Delmar; WA5BNH-Leon; WA6AUK-David & Norma; KE6RWT-William; W6MMO-Jack; K7DCG-Dennis; AB6QC-John; KE6SDF-J.G.; N6SWA-Mike; N6LKG-Gary; KE6TIA-Harold; WB1DSJ-Bob;

KC6HJTZ-William; KB6EPO-Eric; KE6TEA-John; KJ0P-Donald; KE6KNN-Juan; KK6GO-Ed; KK6DV-Susan.

New associate member for 1 year: Thomas Bearman

Hey, hey, **upgrade:** KD6TLF-John to AC6TS & KE6BZP, Lief to General Class. Assoc. Richard Obemayer received his new call: KF6CTA.

In mid-April we had 845 members. We lost about 25 members at the end of March & new members in the first part of April haven't made up for the loss. April is the last month for 17 members. With this issue of the Scope they will receive a special sticker on the outside of the newsletter reminding them.

By the way, you can check when your dues fall due on your label--a 4 digit number on the top line at the extreme right is the year and month your current license expires. The next 4-digit number to the left shows the year & month your dues expire. "9605" means your dues expire at the end of May 1996. Have a look to see if I did it right! -Ralph.

THANKS TO:

Goodie Table: Art and Anita Nye, KB6YHZ and KB6YHY.

Goodies: Bill-KM6PY, Paul-N6ISC, George-K6YGK, and Lief-KE6BZP.

Ellen-N6UWW for the beautiful white rose you left at the Board meeting! A week later and it is more beautiful than when you left it.

AGOGO K6HAV/KI6JM/W9FQN

(05-95)...attendance 140 ..program by April-WA6OPS ..Ted-KD6AKT demonstrated pkt (*still at it*) ..new rpt site bldg proposed & committee chairman W9FQN (*still not decide on*) ..list of PARC scroungers ..problems with 146.7- pkt repeater (*now solved*) ...

(05-91)...attendance 97 ..Art-KB6YHZ and Kieko at goodie table ..potpourri program ..W9FQN is temporary editor ..request for 52.525 rpt ..Bud-KG6VX FD chairman and Dennis-N6KI the whip ..Eric-KA6UAI and Chris brave deep snow and carry



147.130 out of site for repairs ..John-WB6IQS VP of local EII chapter ..CA ham license plates \$22 ..SCOPE costs 3c/pg (same as now -Ed)...

(05-86)...Jim Faughn, WD6ENK, loaned \$18,000 to the Friends of PARC at 5.25% to purchase the repeater site for the club and with the death of Jim we can purchase the site for around \$11,000 ..next meeting at new location of Lincoln Middle School (we were meeting in Glendale Federal in Vista for almost 10yrs) ..100+ at club mtg. ..liability insurance up from \$150 to \$750 ..1st set of guy wires installed on repeater site tower ..Pat-N6INN VE chairwoman ..exams now in Vista Senior Center ..OTs in area were W6UCN, and K6II ..3-pg. roster...

PRESIDENT'S WAVE

LENGTH ~ Art-KC6UQH

It is my pleasure to congratulate **Tony, KC6QHP**, for his First Place entry in the Senior Engineering Division of The Greater San Diego County Science and Engineering Fair. Tony also received an Alternate Sweepstakes Award, The Reuben H. Fleet Memorial Award, A U.S. Navy Special Award, and a American Nuclear Society Award. His exhibit entitled "Audio Video Communications Utilizing an Ethernet Based Microwave Network" along with his picture was in the April

SK SK SK SK SK SK SK SK

We regret to announce the passing of

Lee Miller, W6TDC

Lee turned 89 recently and was an old time military communicator having used Spark Gap transmitters in the early 20's. He will be missed by all who knew him.

SK SK SK SK SK SK SK SK

We regret to report that one of our PARC (1936) founding father's, **John Trent, KL7DG**, (former W6MMZ) recently suffered the loss of his wife and son at the hands of a bear in Alaska. John's address is 1700 E. Tudor Rd, Anchorage, AK 99507. (info via Earl-W6YYV)

SK SK SK SK SK SK SK SK

The NiCad Lady ***N6WPA***

Battery Pack biting the dust? Get your power source rebuilt with NEW higher quality cells! Up to a **50% Savings** over the cost of a new pack!

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.Any Special Application

(909) 678-0943

12th issue of the San Diego Union. Tony, a Senior at San Diego High School, has been active in the San Diego Microwave Group for the last one and a half years. He built a transverter unit for the Amateur 10 GHz. Band, participated in the ARRL Microwave contest and displayed his equipment at the ARRL Round Up at Missile Park last year. He is continuing to experiment with high data rate computer networking using the 10 GHz. Band. Tony received technical support from The San Diego Microwave Group which meets the third Monday of each month at Kerry, N6IZW 's QTH. All of the members of The San Diego Microwave Group are proud of Tony's achievements and growth in a very technical area of Amateur Radio as well as his exploration of a new application for the 10 GHz. Band. Tony's efforts are proof that Amateur Radio can and does contribute to the education and success of our future engineers and scientists.

The San Diego Microwave Group has a large supply of parts, and test equipment for microwave projects. They, under the informal leadership of Kerry, are the only group in San Diego County open to all Amateur Operators wanting to experiment in the world of 1.2 GHz. and higher. At one time the five Meter band was only thought to be useful for five or ten miles. Many members of the Microwave Group have made contacts of several hundred miles on 10 GHz., dispelling the old rumors of the Thirties now applied to the higher frequencies

we use today. The possibility of ducting to Hawaii is a good possibility and several Amateurs are jumping at the chance of making the first contact to Hawaii on 10 GHz.. That will be a new world record. The 10 GHz. Amateur Radio Band is 500 MHz wide and currently is under utilized. Think about that when you are trying to find an open spot on 20 Meters. Kerry recently activated a New 10 Ghz repeater (active reflector type) on Mount San Miguel. He will be giving a Paper on it at the VHF/UHF Microwave Conference in May. He also will be doing a presentation about his repeater, at Our General Meeting later this year.

All Amateur Radio Operators have an opportunity to make history on wavelengths shorter than 23 cm. or be a part of history on the bands longer than 23cm. The new Oscar Phase 3D will carry transponders on many bands including 10 Ghz., which will be launched by next summer. Now is the time to get up to speed in the most exciting part of Amateur Radio. I hope to see you at the next Microwave Group meeting.

PARC has a tradition of posting a QSL card of all Silent Keys who were members of PARC, at our repeater site on Palomar Mountain as a Memorial. Stan, W9FQN, our Repeater Site Chairman is in charge of the Repeater Site Memorial.

I am pleased to announce the appointment of **Frank, KE6WOE**, as Co-Chairman of **Field Day 1996**. Frank, who designed the PARC Web Page for us, is a strong administrator who will pull together all the details that are necessary for a successful Field Day. This will allow **Wayne, WD6AHX**, the time to concentrate on the technical aspects of Field Day. We are looking for Chief Operators and traditionally Operating Teams have competed for operating the high scoring stations.

Field Day is a emergency exercise held on the fourth weekend of June. To simulate a real emergency condition, all operations are confined to a circle of 1000 foot radius, using emergency power for a 24 hour period typically 11 A.M. Saturday to 11 A.M. Sunday.

Keeping Several stations on the air

along with their associated antennas and power supplies is no easy task, but a good training experience for all Amateur Operators new and old.

In order to access station efficiency (how many messages can we pass in a twenty four hour period) an element of contesting is added. The scores are listed in QST November Issue of all Field Day participants in June. The rules for Field Day are published every year in QST. PARC has run in Category 5A for many years and we took First Place in 1991, 1992, and 1993. In 1995 we placed Third in the Nation.

PARC has purchased over the years many towers, antennas and other equipment for Field Day and Emergency operations. We would like to have as many members as possible become familiar with the PARC equipment so that we will have enough operators to man a Field Emergency Communication Station should the need arise. We must be realistic and assume that only a small number of our members will be able to report to the site in an emergency and therefore, we must have a large number of members that are trained to setup, maintain, and operate our equipment.

Stan, W9FQN, has spent many hours stripping out the PARC trailer including the old asphalt tile floor. We hope to have the trailer ready for Field Day and Stan plans to tow it to A.J., KB6NML's QTH for further refurbishing. The PARC Board has authorized the purchase of a DSP unit to add to the equipment already purchased for the trailer. Please contact A.J. if you would like to help with this project.

I have several of the Radio Shack voice chips donated by N6ZUC and several headsets with boom mikes. I need some one who is engineering orientated to design a system incorporating these items for Field Day. Ivan, N6OLE, has agreed to do the assembly work. Having a box that says CQ Field Day will save the operators voices for exchanging information and make it a more pleasurable experience for all. Plus you will not have to explain to your employer and YL why you can't talk on the Monday after

Field Day! Call me if you can help with this project. I have a reprint of the QST article for building the box, several data books on the IC, thanks to John, WB6IQS, and the part that remains to be designed is the interface to transceivers, headsets, and foot switches.

73, Арт, KC6UQH

EDITOR Stan-W9FON

The **April Fool** article each year always poses a problem. Make it too simple and **everyone** spots it for what it is almost immediately. Make it too good and **everyone** is fooled.



Your editor has used the formula:
a)mention someone or group that everyone knows, b)mention something which is true, c)throw in a few things which seem a little strange, d)violate rules of physics, electronics, and/or common sense, e)mention something about April or previous April Fool articles.

Such was the article GRANT OF \$\$\$ to PARC. Some of the things which were starting to indicate something wrong were:

a)"..David received his degree in Physics from Texas University and graduated soon after."

b)... $P=(I)(I)(R)$ which does not apply here since this R is ohmic resistance and this cable deals with RF impedance (Z) which is a form of AC resistance.

c)all cables will read almost zero R using a VTM or VOM since you are measuring DC resistance, not RF!

d) lightning has struck many cables on towers resulting in very high currents over very short periods of time and the resistance of the cable has never changed (unless it melted down).

e)Teflon coated silver wire does not really help anything. Sounds great. Teflon can't really help inside of the metal wire.

A shorted cable almost always reads zero for short lengths with VOMs.

g)CB SWR Grease does have a nice sounding name. Must have **slipped** by some of you since “you remembered it

from your CB days?!"

**h)the phone number 277-4536-65 spells
APRIL FOOL.**

i)the last paragraph mentions previous April Fool articles ..and ends with the words **April 1st.**

Well, we will have to wait for April 97 and see what foolishness awaits us.

One of our members suggested running this "new cable" down to Valley Center *(two strands, one receive and one transmit for each repeater)* so that our transmitters and receivers would be off the mountain (thanks to David White) ..some thought the new cable should be connected to satellites for better communications ..several wanted dealerships ..several complained that the telephone numbers were no good ...thanks to David-KC6YSO for the use of his good name.

SUNSPOTS TURN UP MISSING

(de ARRL Newsletter, March 8, 1996)

Keep those low-band antennas up! Solar seer Tad Cook, KT7H, reports solar activity continues to be *extremely* low, with extended periods of no sunspots at all. "It looks like 1996 will certainly be the year of the quiet sun for cycle 22," said Cook.

Current projections show the sunspot minima (ie, numbers of sunspots observed) will occur this year, with the minimum solar flux still a year off. After the minimum, activity should begin to move upward rapidly, and even 10 meters could be exciting again in a few years, he said.

Current 80 and 160-meter conditions are good, especially with the quiet geomagnetic conditions we are experiencing. Conditions on the higher bands should improve soon because of seasonal variations as we head into spring, and not because of solar activity.

Flux levels should be back up to 75 by the third week of March, after leveling off around 70 earlier in the month. Quiet geomagnetic conditions should prevail, but some moderate disturbances are possible March 10, 11 and 23 (*wonder if this was true -Ed*).

**PLAN ON PARTICIPATING IN
FIELD DAY THIS YEAR!**

Our autopatches were programmed from the telephone book and **only** those



prefixes in the book appear in our *allow* tables.

It has come to our attention that the phone company has a large number of **cell phone prefixes** which we are not aware of nor are they listed in the phone book.

If anyone has a listing of the cell phone prefixes, please see that we get a copy for future additions to our *allow* tables. Otherwise you will never be able to call a cell phone.

We would also like to know if the cell phone prefix is "toll free" from every where in San Diego Co. so that it can be programmed into **all** autopatch locations.

DIRECTION FINDING

During the past few weeks our 146.73 repeater has been plagued with interference from a repeater broadcasting taxi cab instructions (a dispatcher).

Eric-KO6IQ went to the mountain and started DFing the signal and found that it was coming from a site near PARC's repeater site but because of locked fences he was not able to get a direct fix on the signal.

Eric was also involved in locating a signal emanating from south western Escondido which went off the air before it was located.

WORKPARTIES

Stan-W9FQN

The next work party (the first for the year) will be held **Sunday, May 5th**. Meet at **Mother's Kitchen** parking lot immediately to the left at the top of Palomar Mountain.

Leave your parking lights on. Talk-in will be **146.730**. We will leave from the parking lot at **10pm** for the repeater site.

We especially need **tower climbers!** It seems like those that we have are not always available at the times we have work parties. If you have climbing experience (pole or tower), contact W9FQN at the next club meeting.

Please contact W9FQN before making the trip since the weather might be bad. A decision will be made and announced on the Sunday morning

ARES 8:30 net on 146.73.

(3-31) **Art-KC6UQH** made a quick trip to the repeater site. He replaced the "numb" receiver on 147.130, temporarily fixed (*adjusted and cleaned*) a bad pot (*potentiometer or variable resistor*) in the 147.075 repeater, and "spliced" the 147.130 and 147.075 repeater receivers together so they use one of the highest 2m antennas on the tower (*really 147.730 and 147.675 receivers*)

(4-1) **John-WB6IQS** and **Jerry-WB6FMT** replaced a "prefix" blocker at patch #1, added a battery charge indicator, cleaned the battery terminals, and adjusted audio levels. All patch centers now have the new "battery charge" indicators installed.

(4-14) workparty at John's, **WB6IQH's** QTH to modify 5-6 2m Motorola transceivers that were in the 150-160 band to the amateur band of 140-150MHz. Workers were: **Daniel-KD6DKM**, **Jorge-KK6KD**, **Alfredo-KD6IYX**, **John-WB6IQS**, **Art-KC6YQH**, and **David White**.

(4-17) **Mike-AB6QT** visited the site to find why 146.73 was staying keyed on under certain conditions. The problem was traced to an intermittent fuse and we suspect that some of the weird things previously observed might have been caused by the fuse not functioning properly. Time will tell. He also checked sensitivity (great) and reset squelch levels. The controller was put on a battery and several control lines were filtered when glitches from unknown sources were observed on the lines by using an oscilloscope.

(4-21) another workparty at John's QTH to modify Motorola receivers and transmitters. All of the receivers were modified and were on specifications or near to them. The 50 watt and 100 watt transmitter boards were started. The crew this time was **David-KC6YSO**, **Daniel-KD6DKM**, **John-WB6IQS**, **Art-KC6UQH**, **Jorge-KK6KD**, and a charming young lady (**Daniel's XYL**), **Elba-KD6IYL**.

Modification requires retuning of all coils but when the frequency change is so great it is necessary to change a large number of capacitors in each of the frequency sensitive sections of the transmitter and receiver.

AMATEUR TV

John-AC6TS

The club is still looking for someone who would like to take on the project of installing our remote video camera at the repeater site.

Please note that I have changed my call from **KD6TLF** to **AC6TS** (*amateur camera 6 television screens*) and that I'm changing BBS's from Temecula to **PALBBS** in Vista which is presently more reliable from the Escondido area and is on 146.7(-), the club's packet duplex repeater.

Stan-W9FQN will have more ATV information sheets at the next meeting. Be sure to stop and pick up one. In many cases, all it takes is a converter, some sort of antenna, and a TV set to receive. Contact me for details.

PACKET

Ted-KD6AKT

I will again be at meetings with a portable packet station. Drop into the **RACES/ARES** room across from the meeting room before and after the meeting for a demonstration and the answering questions.

Don't forget the Tuesday evening packet net on 146.73(-) at 9pm.

PROJECTS

PARC has a large number of projects that take varying degrees of electronic knowledge: none to quite a bit. If you can help us with any project, please contact a Board Member.

PARC TRAILER

The PARC emergency trailer has been moved to **Jo-KB6NMK** and **A.J.-KB6NML's** QTH for specific work to be done: another operating table and minor floor work.

Stan-W9FQN has removed most of the old paint from the outside and the old linoleum squares from the floor.

We need members who can devote a few hours to the following tasks:

Floor: install carpet (Estimated Time To

Finish 2-3 hours); install plywood (ETTF 1-2hrs).

Paint Tables(2): (ETTF 1-2hrs).

Putty: inside holes (ETTF 1-2hrs).

Paint Inside: putty holes, paint white (ETTF: 2-3 hours).

Windows: clean & caulk (ETTF: 2hrs).

Door Locks: install two places (ETTF: 2hrs).

Furnace: re-install copper line, check out (ETTF: 2hrs).

Antennas: install several (ETTF: 2-3hrs).

AC Electrical: for several operating positions (ETTF: 3-4 hours).

Woodworking: various (ETTF: 2-5 hours, as much as you want).

Lighting: install at two desks (ETTC: 1-2hrs).

Porta-pottie: repair (ETTF: 1-2hrs). Requires some gluing at a rubber joint.

Polishing: cleaning and polishing outside aluminum sides before painting (ETTF 5-8 people for 2-3hrs/ea.). It would be nice to have electric drills with pads.

Outside painting: tubular tower and several small items need a coat of paint (ETTF: 1-2hrs).

Your help is needed! Pick something(s) you can do and call Jo or A.J. to schedule a mini-work party of your own at their QTH in Escondido.

This trailer will be used for emergencies, drills, contests by club members, club members who have antenna restrictions, and the June Field Day each year. Those who put in "work" time get first call on its use.

We hope that members will help with the refurbishing of this emergency unit and also use it during special open houses which the club will have from time to time.

Antennas will be set up and members who have antenna restrictions will be able to bring their own rigs to this portable unit for weekend operations. Antennas will be furnished (beams and dipoles) and we might even have a rig or two available for you to use.

We might even try to obtain WAS and DXCC under the W6NWG call.

|||||



If your antenna system looks like this and you want it repaired, replaced or even removed, please call for a free estimate!

Radio systems installation, repair and removal, and interference resolution.

Edward Ross, N6GZI
(619)542-1405

Antenna

Specialties

A SPECIAL WELCOME TO:

Mark-KF6CCH who passed the FCC test here in the USA for a USA license but really holds a Mexican XE call. He lives in Mexico City and graduated from college in the area of Mechanical and Electrical engineering.

Mark will be visiting here in the San Diego area for the next 4-5 months. He has offered to work at the club's repeater site and on weekends to help out any club members who have antenna or feedline problems. He is especially interested in cubical quads. Give him a call at 223-5535.

FOR SAIL

Phone or send ads to your editor: mail, packet, or E-mail before the 20th of each month. Copy your ads after the form used here in. Personal equipment ads are free to members.

Commercial Ads: \$2/column inch/mo. We will "squash" your copy to the number of inches bought. Ads billed Feb., May, Aug., & Nov.

Kevin Sanders, KN6FQ, in Escondido is now handling PARC's extensive tube bank. Contact Kevin at 432-8381 for availability & prices.

NEW ADS.

(04-20)Heathkit Station - SB100 Xcvr, 80-10 meters; extra Receiver, SB300; Power supply; SWR bridge; phone patch. Make offer: Lou WB6CQA 726-3572.

(04-18)Kenwood TS-830s xcvr ex cond \$500 OBO: Tom KE6HRL 741-1364 Esc.

(04-11)"Health Spa" (\$1,100 value) (sell or trade) 8' portable octagon fiber glass seats with jets/spray, 110V, heater cover & gazebo lattice for an HF Ham mobile linear or etc.: Larry W7HKI 439-5855 Ocsd.

(04-09)Tower 54' crankup + new control motor + HiGain control Unit + Hi-Gain Quad all for 4500 cash: Bob KO6EM 728-4835.

(04-02) Kenwoods a)930 w/tuner \$950, b)220 Scope \$200, c)930 spkr, c)TS130 w/war w/b \$350, d)TS130 tuner w/b \$75, e)2m/241 A/B \$300, f)7850 mobile 50w w/b \$300; Yaesu FL2100 b/ex tubes \$400; RTTY Commodore cpl AEA monitor \$300 & 1540 printer; MFJ 9410 tuner (E) \$100: Larry W7HKI 439-5855 Ocsd.

(04-02) PK64 Pkt w/commodore keyboard \$100; **Bench**er key w/tet keyer \$100: Larry W7HKI 439-5855 Ocsd.

(03-20) 62yrs of QST, all or nothing: WaltH.-W6KRQ 722-3248.

(02-20) Okidata 192+ near letter quality dot matrix printer, stand, box of paper, parallel cable, manuals, IBM compatible \$49; Howard WB6AKM 453-3156 nites or 642-2400, ext 1201 days SD.

(1-23) Kenwood TS-520 xcvr ex/cond w/Shure desk mic: Jo KB6NMK 741-2560 Esc.

(1-18) Kenwood MP-100 mounting bracket for TS-130: Jo KB6NMK 741-2560 Esc.

(1-4) Hamond Organ with course was \$2,300 now \$400 or trade for HF/UHF equip: Steve W2MRM 451-5690 R. Bernardo.

(1-4) Kenwood TS-440s/AT; Kenwood Pwr Sup PS-50; Hustler Ant. mount & mast with various ant. tips & coils: Joe N6RVO 433-6885.

Please let me know if you buy or sell so I can take out the ad! -Ed.

WANTED: A few good men/women.

(4-14) need information of the modification of a communications monitor, CE-3, for "opening" up the 70cm band & need cover door for the unit: Mike AB6QT 742-1573 Escondido.

(2-22) 1992 ARRL Handbook, any



condx, for library: Duane AA6EE 789-3674 Ramona.

(2-16) Lost manual for TH28A HT in move de Texas. Need copy. Pat KC5NJU 743-6592 Esc (or DATEL Esc/SM).

(1-26) Help with a TH-28A HT. Call Rick and Lani 489-1126 Esc.

(1-26) HyGain Telex HAM IV Rotor: Troy KE6ASO 287-3910 SD.

(1-26) Anyone interested in Astronomy or telescopes of any kind for general interest activities and cooperation up to projects and observatories: David L. White, PIRA, 724-5671.

(1-24) Ranger II, E.E. 200V, and other old tube gear especially receivers for serious educational station: David White 7245671 Vista.

(1-12) FEX767-2 & FEX767-6m modules new/used for Yaesu FT-767GX: James N8NHY 967-6313 leave msg.

Fallbrook High School will take any and all donations of amateur radio equipment. We need radios, a Tri-band beam, etc. (it's all tax deductible). Please contact Fritz Schattschneider, KE6EKY, at 723-6357 or Gayle Olson, KM6WF at 723-6402.

INTERNET INFORMATION

Internet addresses sometimes are a pain to remember by others ..especially in emergencies or when they are in a great hurry.

Paul-KB5MU, PARC's packet guru has suggested that we make ourselves available of a service offered by AMSAT. You register your regular address with them and they assign you an alias which is easy for all to remember ..at least for hams it is. For example
 => ka6fps@sdcoe.k12.ca.us can be
 => ka6fps@amsat.org and
 => w9fqm@aol.com can be
 => w9fqm@amsat.org
 => or w9fqm@amsat.org could be
 ka6fps@sdcoe.k12.ca.us!

This would allow W9FQN to receive all e-mail thru KA6FPS's mail drop with the SDCo. schools.

All you have to remember is **call-sign@amsat.org** which is a lot easier

than some strange address .. there are so many strange ones out there these days ...and they seem to get changed from time to time.

This in no way affects your regular e-mail address. You can now get mail thru two addresses!

The following is a step-by-step method for registering your new alias as described by PARC's Web page provider, **Frank-KE6WOE**:

"If you have a difficult to remember internet e-mail address, you may want to take advantage of AMSAT's free message re-mailing service for amateur radio operators.

Here's the way it works: you register with AMSAT by sending an e-mail message to -

listserv@amsat.org

and request their re-mail service. For example, "Request you add my callsign to AMSAT's re-mail service. My callsign is KE6WOE, and my correct e-mail address is -

frankl@electriciti.com"

That's all there is to it! It takes a day or two for confirmation, and then your easy-to-remember e-mail address is **yourcall@amsat.org**, where *yourcall* is your amateur callsign. Messages sent this way go first to the AMSAT host (at UCSD in San Diego, by the way), where it is then forwarded to your real e-mail address. <Frank>"

Internet update of addresses:

(pse check to see they are listed properly)

KF6AZU, **barryh@rmp.com**; BarryH
 KN6BN, **ThomasPat@aol.com**; TomP
 WD6FWE, **wd6fwe@aol.com**; DonJ
 KD6EBY, **dat@gerry.palomar.caltech.edu**;
 DavidT
 AC6GV, **suggs@alumni.caltech.edu**; BrianS
 AH6IR, **RLWMAW@aol.com**; Rick
 AB6IU, **rmirdas@cts.com**; RichardM
 KD6JXY, **kd6jxy@vlyoak.resun.com**; PaulM
 WB6MEL, **jdhamm@inetworld.net**; JohnH
 N8NHY, **FNBCO3A@prodigy.com**; JamesP
 WB6PKK, **mmunster@qualcomm.com**;
 MarvinM
 N6QDB, **kalari@msn.com**; SusanR
 AB6QT, **mwd@gerry.palomar.caltech.edu**;
 MikeD
 WB9RKN, **davis@qualcomm.com**; RoyD
 WA6UTQ, **wa6utq@connectnet.com**; LarryR
 KC6WAN, **redpowell@aol.com**; RalphP
 KE6WEO, **joe@sd.inri.com**; JoeC
 WA6YOO, **jcarter@mailhost2.csusm.edu**; Har-
 ryH
 KC6YSO, **daved@cts.com**; DavidD
 KE6ZXQ, **egenest@connect.com**; EdG

Please send additions/corrections and AMSAT re-mail changes to your editor via e-mail.

The following have an address through AMSAT of the type:

(YOURCALL@amsat.org):

KA6FPS-BarbaraR, W9FQN-StanR, KB5MU-PaulW, N6QDB-SusanR, KE6WOE-FrankL, & N6YZZ-LindaR. (how about your call?)

If all PARC members with e-mail addresses registered with **amsat.org**, we would only need to publish **callsigns and names**.

And then there is PARC's World Wide Web maintained by Frank-KE6WOE at:

(http://www.electriciti.com/parc)

Get a charge out of electriciti!

NEWS/UNCLASSIFIED/etc

Please send "newsworthy" items 2-UR Editor via PALBBS, Letters, e-mail, or notes at club meetings.

Larry-WA6HKL a former SCOPE advertiser, has just finished a 4-month stay in the hospital (various reasons) and is now back home recuperating. His nurse has been his wife, Maxine-W7HKL. Larry is one of the "real old timers" in the area of transceiver production in the SDCo. area. (good seeing you at the last meeting -Ed)

THANKS TO:

Frank-KE6WOE for obtaining from the ARRL the "ARRL clip art" which is used in the SCOPE this issue.

MEETING SELLING POLICY

At the April Board meeting the Board decided that in the future commercial vendors would not be allowed to sell their wares without prior board approval at club meetings or other club functions.

This does not affect members bringing in a few items of their own personal equipment for sale at the club's 10% table run by John-WB6IQS.

MISC.

Rich Cook: "Programming today is a race between software engineers striving to build bigger and better idiot-proof programs, and the Universe trying to produce bigger and better idiots. So far, the Universe is winning."

LETTERS TO THE EDITOR

Your editor and the Board reserve the right to accept and edit all letters without changing the intent of the letter. Letters are usually printed on a "first in/first out" basis -Ed.

Europe

Linda-N6YZZ

I decided I wanted to tour Europe (after college graduation) and spend as little money as possible (*I had very little money*). My goal was to get through Europe on \$25 a day (minus gifts for myself and friends,) and I did it.

During my last semester of college I baby sat and had part time jobs. I started researching places I wanted to go and things I wanted to do. I found a good deal on a plane ticket and my next goal was to find places to stay. I started writing friends in Europe telling them my itinerary and when I wanted to visit.

I had many options but there were places I wanted to visit and I had no where to stay. So I took advantage of the ARRL list of HAM operators in Europe who open their homes to travelling ham operators. I started writing Hams who lived in key places that I wanted to visit. I wrote at least 25 letters and got responses from about 20 people who said they'd be home to receive my girl friend and I or sent their regrets that they would be out of town or unable to give us lodging.

The responses were incredible. One lady offered her apartment even though she wouldn't be there to host us. It was hard to believe how many people were so excited to have us stay with them and offered to pick us up. I wrote responses to those that I scheduled in our itinerary and in August my best friend and I were off.

I started in Sweden and visited the famous Water festival, then south to Copenhagen to see the Carlsberg brewery and the famous little mermaid.

Next it was the overnight train to Berlin; in the morning we showed up at the first ham's house. This man's name is **Hans**, and the sweetest man ever. The city is not a beautiful city but I loved it because Hans showed us everything with a personal history lesson behind it. I can't imagine being so



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fascinated with this city without him. He accommodated us in every way possible and answered all of our zillions of questions about the wall and it's falling.

We left Berlin and hit the beautiful city of Prague where friends showed us the typical life there. The next country was Austria where we had a hostile in Vienna and then had a day trip to Saltzberg on the way to Munich to meet up with another Ham operator who picked us up at the train station. We had decided to spend four days there and in the meantime, we were introduced to more Hams who went way out of their way for us. We had a day excursion to Norshveinstein castle (Disney modeled after this one.) It was incredible!

We then saw King Louie's other castle and were taken to a quiet monastery and next to it we tried the blood sausage and the typical beer. After Germany we were off to the Rhine falls in Switzerland and the

main shopping row in Zurich. Then it was hostile time again in Venice, Milan and Florence. Unfortunately I couldn't contact Hams there and we were on our own for seven days.

At the end we were ready to be pampered again; life was not easy when there wasn't anyone to show us around, pick us up, feed us or to communicate for us. It made all the difference sight seeing also if someone would go to the trouble of showing us around or telling us where to go so we didn't have to figure out the map for ourselves.

From Italy, it took 24 hours on the over night train to Barcelona and a little cheap red wine to sleep through the trip. Barcelona and San Sebastian were fantastic and so so beautiful.

Then after nine days we hit the five hour speed train to Paris to meet another girlfriend. Those French live an expensive life and aren't overly friendly to us Americans but I had an incredible time staying at a friend's apt. and not having to spend money eating out because after my \$5 Sprite drink, I decided it wasn't worth it.

So far I had not deprived myself of anything and I was definitely eating my way through Europe and enjoying all the cultural differences.

After Paris we were off to Den Haag, Holland, and were picked up by Hams **Hans** and **Rita**. These wonderful people were driving us to their house and as we pulled up, I thought, "Oh, how nice, they're taking us sightseeing already," since we were looking at the International Peace Palace. The reality was, **they lived in it** and we got the royal treatment with a personal tour of every room with excellent lodging in a fabulous place.

We also couldn't miss famous Amsterdam and at the end of our stay there, they dropped us off at the ferry boat and we were on the high seas (no joke) to London.

We stayed with several Hams outside the city who were so kind. My only regret was that it was our last stop so we showed up late and didn't get enough time to spend with them in between our daily outings to the theatre, Soho, Buckingham palace ...etc.

All in all I would have to admit that I had the best eight week experience ever



because my friend and I were enjoying everything, first hand.

If you think you can see everything you want to see on your own, you're fooling yourself because it really is physically draining and a nightmare to motivate yourself to see "another church" because it might probably look like every other one you saw before. The one week in Italy without friends to show us around was long enough.

I found the people in Europe to be so wonderful, generous, and excited to show off their country. I will admit that it is a great benefit to know that you will be fed and showered daily, and to know that regardless of the time your train comes in, you will for sure have a place to stay and no one is telling you that there is no room. The little extras are when your hosts want to show you the highlights of each place and give you gifts or memorabilia of their country ...it was definitely a memorable experience.

I recommend that all young people with Ham licenses going to Europe should really plan your time, your money, and experience the Hams there, because even though they are strangers, they are part of the same hobby and **wonderful people** who can make your experience all that more enriching and enjoyable. I now have friends all over Europe.

It is possible to do Europe on \$25 a day. I am proof of it!

(Linda-N6YZZ is the daughter of W9FQN and KA6FPS. She wrote this in April while home from her present job in Mexico City where she teaches English in the mornings to PEMEX executives and from 4-7pm works for an executive in the area of finance ..and that's another Ham networking story sometime! -Ed).

PARC Nets

The Palomar ARC provides repeater net time to responsible organizations requesting the use of our repeaters: ARES, RACES, MARA, Packet, Microwave, Hiking, Spanish, etc. Their activities take place outside of PARC and are not a part of the PARC organization.

PARC requires only that the net controls be club members and that certain basic items must appear in the

reading of their pre-ambls. These requirements tend to assure us that the repeaters are being used responsibly and that net controls have access to the most recent information published in the SCOPE concerning the use of our repeaters.

PARC only provides repeater time for other groups and in many cases has no other connection with them. In the same way, the SCOPE provides space for announcements for other groups such as ARES, RACES, etc.

HAM HELP NET: it appears as though the change from Thursday at 8:15pm on 147.075 to Thursday at 9pm on 146.730 has been made without problems. If you have any ham related problems, including computers, be sure to bring your problem to the HAM HELP net.

VOICE PACKET NET: Paul-KB5MU has been doing the Tuesday evening packet net since its inception in October of 1985 and now feels that he would like to move on to other things with May probably being his last month as the only net control.

Paul was instrumental in getting PARC's 145.05 packet digi (now a NODE) on the air and had a lot to do with its connection to the San Diego Co. METROLINK backbone on 70cm.

The following club members have been suggested as possible net controls beginning in June: **Ted-KD6AKT** (VHF Pkt Dxing), **Rod-AC6V** (accessing BBS's and Web sites), **Frank-KE6WOE** (emergency communications and World Wide Web), **Norbert-KJ6ZD** (operates PALBBS HF/VHF/UHF), **Joe-N6YMD** (Aficionado Extrodinair), ...and others we hope will volunteer to help out. These club members cover a wide spectrum of knowledge and would be able to answer most of the questions being asked.

If you feel that there is still a reason for the net and you are interested in helping to keep the net on the air, contact W9FQN who will serve as the net coordinator until a decision is made on its future. It might be that we would want to consider opening it up to questions on the World Wide Web.

HIKER's NET Glen-KE6ZLY

Saturday, April 13, the Friday 9pm hikers net members spent the day hiking in the desert about 6mi south of scissors crossing (S2/78) on S2. Their first hike was up to the remains of an old house on Ghost Mountain. Their second hike was to see the old Indian petrograph paintings. A good time was had by the following participants: Irvin-WB7ATT, Eric-KA6AUV, Bill-KF6AVG, Matt-KF6BRC (+5), Tom-KJ6NA, Barb-KA6FPS, Stan-W9FQN, Jo-KB6NMK, Bob-WA6QQQ, Glenn-KE6ZLY, and providing communications was Blackie-KE6IQQ with several others helping. Roland-KE6NPN who was in the area on a Mountain Rescue drill dropped in Friday evening for a short time.

Participants ages ran from 66 down to ten years old.

The next hike is scheduled for Saturday, the 11th of May, and will be to Monument Peak in SE SDCo. Come join us! More information will be given on the Friday evening Hiker's nets at 9pm on 146.730.

The hiking group has made application for 12 hikers to take a Mt. Whitney hike in August. They have applied for August 16th through 19th for 12 hikers (a possibility of more slots being opened later).

The hikers would camp the first night, hike to a base camp on Saturday, hit the top (14,000+ ft.) Sunday, and possibly make it back down the same day. Monday was cleared in case it took longer than we thought. Wonder what repeaters we will be able to access!

NOTICE: Duane-WB6R, please come to the next meeting. We have your hat!

SWAP MEETS

The 1st Saturday of each month there is an amateur radio swapmeet held at the Santee outdoor movie theater in Santee. While the amount of amateur gear being sold seems to be getting smaller each year, the amount of computer related items is increasing.

One of the easiest ways of getting



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Directions: On I-15, take Clairemont Mesa Blvd. off ramp to East. Stay in right-hand lane. Turn right at stop light. As you are turning right you can see our beams in the shopping center. Travel 100 yds. on Kearny Villa Rd. and U-turn back to shopping area and HRO sign. Be sure to see our equipment in action on real antennas.

there is to take road 52 east to Santee, through town to Woodside (a frontage road to Rd67), and the theater will be on the left. Keep north of Rd67 at all times.

Your editor would welcome descriptions of the other swapmeets in Southern California, how to get there, and what type of materials are being sold. It would also be nice to publish all of the swapnets with their frequencies and times.

Possibly in the future PARC could set aside a time to visit the LA area swapmeets and we could form a caravan with ride sharing. Any interest?

Santa Maria Radio Swapfest

Sunday, June 16, the Satellite ARC will hold their annual swapfest which they claim is the largest on the Central Coast. There are over \$1,500 in prizes. Check with W9FQN at the next meeting for registration forms and additional information.

SANDARC

San Diego County Amateur Radio Council is a group of clubs banded together to promote amateur radio in SDCo. The last listing of member clubs was:

ARC of El Cajon, Challenger ARC, Convair ARC, Escondido ARS, North Shores ARC, Palomar ARC Inc., Q.C.W.A., ROARS, San Diego ARC, San Diego DX

Club, SANDPAC, SANDRA Inc., SOBARS, and 220 Club of San Diego.

SANDARC has been responsible for putting on the ARRL Southwest Division Convention in San Diego.

SIX METERS

Those of you buying new HF rigs might want to consider one that also has 50MHz as well as the 80-10m ham bands. The sunspot activity is on the increase and conditions on 6m can do nothing but improve. Besides, you can use 6m FM to access PARC's 6m repeater.

It should be possible to contact other stations throughout the USA through the 6m repeater on Palomar Mt. It might be interesting to link a 10m repeater to our 6m repeater. Wonder what those cavities would look like? The 6m cavities built by Bill-KC6YOX were 6' tall!

OTHER FREQUENCIES

The following frequencies might be of interest to club members:

145.220- Up I-5/15 past northern Im-

migration check points, PL103.5

145.790+ APRS Pkt position locator

146.175+ (107.2Hz) Fallbrook

146.700- PALBBS Pkt.

147.090+ Coastal SD to LA

147.645- Coastal SD to LA

If you have suggestions for others, please contact your editor. It is possi-

ble to run autopatches from Palm Springs on our 146.73 and 147.13 repeaters if your car is facing towards the west and you are a mile or more from the mountains.

FCC

The FCC's home page for Compliance and Information is:

<http://www.fcc.gov/Bureaus/Compliance/WWW>

It covers interference to TVs, radios, stereos, telephones, and televisions. They also have an *Interference Handbook* which includes a list of manufacturers who provide additional information.

HOBBY SHOW '96

On Saturday April 20th, Stan-W9FQN, at the direction of the Board, attended the Hobby show at the Antique Gas and Steam Museum located in Vista.

Stan handed out PARC brochures to interested observers. There was a Motor Home Rally with about 100 vehicles and 30 of them were amateurs.

There will be an antique engine and tractor show in October and the club might want to take there refurbished trailer there for demonstrations on amateur radio.

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Dues are \$12/yr. including \$3 for SCOPE, or \$21/yr for a family all living at the same address. Consider paying for two or three years at a time to reduce the work for the membership chairman.

Name, call, and complete address are required. Telephone number is required but may be unlisted in roster if you prefer.

For notification of acceptance and an autopatch information and code sheet, send a **Self-Addressed-Stamped-Envelope (SASE)** with your phone number on the **inside flap** with your application or the receipt of the next newsletter mailed the **last week of each month** will be your only notification of membership.

PARC NETS (15)

All 146.730 8:00pm Traffic Net (SDCTN)

All 147.130 10+ pm King Henry's Net

(open to all facetious amateurs)

Sun. 146.730 8:30am AREmergency Service

Sun. 146.730 10:00pm Sailor's Net

Sun. 147.075 8:45pm MARA Net

Sun. 146.730 9:00pm This Wk in SDCo.

Mo. 147.130 6:45pm EVAC (2nd/4th)

M-F 147.075 7:00pm Morse Code Net

Mo. 146.730 7:15pm RACES sub Net

Mo. 146.730 9:00pm Microwave Net

Tue. 146.730 9:00pm Voice Packet Net

We. 146.730 9:00pm Spanish (2nd/4th)

Thu. 146.730 7:00pm Young People's Net

Thu. 146.730 9:00pm Ham Help Net

(electronics, computers, antennas, license theory, etc.)

Fri. 146.730 9:00pm Hiker's Net

Apr. SCOPE helpers: Ralph-KC6WAN, W6TFB-Lloyd & Lisbeth, WA6UTQ-Larry, N6WQR-Bernice, WA6YOO-Harry, N6TFB- Jerry, Art & Anita-KB6YHZ/YHY, Bernice-N6WQR, Ellen-N6UWW, and Stan-W9FQN.

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145.050/146.7- (W6NWG/PALBBS)
ATV: 915 wbfm, 919AM, 2441.25 wbfm
Intercom: 144.39, PL 79.7 nbfm
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OTHER: *224.38- & *224.94- KK6KD
***224.90-WD6HFD(220Club)**
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